

SCHEDULE III  
(Subsection 6(1))

COPY	
BOARD.	5
G.W.	1
AB. OF LICENCE	<del>1</del>
W. RES.	ORIG
File	N7-1-1786

APPLICATION FOR LICENCE, AMENDMENT OF LICENCE, OR RENEWAL

APPLICATION/LICENCE NO:  
(amendment or renewal only)

1. NAME AND MAILING ADDRESS OF APPLICANT

CYNTECH TANK SERVICES INC.  
6767 - 84TH STREET SE  
CALGARY, AB T2C 4T6

TELEPHONE: 228 1767 FAX: 245 56632

2. ADDRESS OF HEAD OFFICE IN CANADA IF INCORPORATED

SAME

TELEPHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

3. LOCATION OF UNDERTAKING (describe and attach a map, indicating watercourses and location of any proposed waste deposits)

Latitude 69 10'

Longitude 134 15'

4. DESCRIPTION OF UNDERTAKING (describe and attach plans)

PLEASE SEE ATTACHMENT "A".

5. TYPE OF UNDERTAKING

- |                       |          |                |   |                 |   |
|-----------------------|----------|----------------|---|-----------------|---|
| 1. Industrial         | <u>X</u> | 4. Power       | — | 6. Conservation | — |
| 2. Mining and milling | —        | 5. Agriculture | — | 7. Recreation   | — |
| 3. Municipal          | —        |                |   |                 |   |

8. Miscellaneous (describe)

6. WATER USE

- |  |          |                                       |   |
|--|----------|---------------------------------------|---|
| To obtain water                            | <u>X</u> | Flood control                         | — |
| To cross a watercourse                     | —        | To divert water                       | — |
| To modify the bed or bank of a watercourse | —        | To alter the flow of, or store, water | — |

Other (describe) TO OBTAIN WATER FOR HYDROTEST AND THEN RETURN IT TO THE RIVER.

7. QUANTITY OF WATER INVOLVED (litres per second, litres per day or cubic metres per year, including both quantity to be used and quality to be returned to source)

TOTAL VOLUME: 2,835 CM

THE HYDROTEST SHOULD HAVE A MINIMUM EFFECT ON THE WATER QUALITY.

2778



[9]

SCHEDULE III—Concluded

APPLICATION FOR LICENCE, AMENDMENT OF LICENCE, OR RENEWAL OF LICENCE—Concluded

8. WASTE DEPOSITED (quantity, quality, treatment and disposal)

N/A

9. OTHER PERSONS OR PROPERTIES AFFECTED BY THIS UNDERTAKING (give name, mailing address and location; attach list if necessary)

N/A

10. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION

NO FORESEEABLE ENVIRONMENTAL IMPACTS.

11. CONTRACTOR AND SUB-CONTRACTORS (names, addresses and functions)

N/A

12. STUDIES UNDERTAKEN TO DATE (attach list if necessary)

NONE

13. PROPOSED TIME SCHEDULE

Start date AUG. 5/02

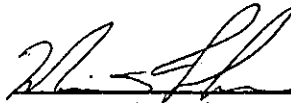
Completion date AUG. 15/02

MERVIN S. FULAWKA

NAME (Print)

PROJECT MANAGER

TITLE (Print)



SIGNATURE

MAY 27, 2002

DATE

FOR OFFICE USE ONLY

APPLICATION FEE Amount: \$ \_\_\_\_\_ Receipt No.: \_\_\_\_\_

WATER USE DEPOSIT Amount: \$ \_\_\_\_\_ Receipt No.: \_\_\_\_\_

## Attachment to Schedule III

### 4.0 Description of Undertaking

**Task:** To individually hydrostatically test 3 vertical storage tanks each of the following dimensions.

Tank #	Dimensions (diameter x height)	Volume in Barrels	(m <sup>3</sup> )
1	49' 4" x 42' 0"	14,270	(2274.05)
2	36' 0" x 36' 0"	6,600	(1037.95)
3	51' 6" x 48' 0"	18,100	(2832.20)

### Background

The 3 tanks will be located at the Petro Canada Oil & Gas Swimming Point, Richards Island location. The tanks were previously used for the storage of diesel and jet B fuels but were discontinued from service.

Following decommission, the tanks were cleaned and gas freed and have since remained unused. The tanks are internally coated with an epoxy lining hence there is no rust scales or flaking present. No hydrocarbon residuals are detectable and the epoxy coating in all the tanks is intact throughout the tanks.

The tanks will be hydrostatically tested to check compliance with the requirements of Section 10.3 of API 653 – Tank Inspection, Repair, Alteration and Reconstruction.

Testing of the tanks will take place in the following order.

1. Tank # 3
2. Tank # 1
3. Tank # 2

Water requirements for the hydrostatic test will be drawn from the Mackenzie River, East Channel. It is anticipated that the maximum quantity drawn will not exceed 2833 cubic meters excluding the volume of the pipeline contents from the intake to the tank isolating valve.

Following completion of testing of each of the tanks, the effluent will be progressively discharged to the river. The quantity of effluent discharged to the river will be monitored through appropriate metering devices.

Quality control testing, primarily to detect presence of hydrocarbon in the effluent, will be conducted prior to commencement of discharge and the effluent will be visually monitored throughout the duration of the discharge operations.

## Procedure

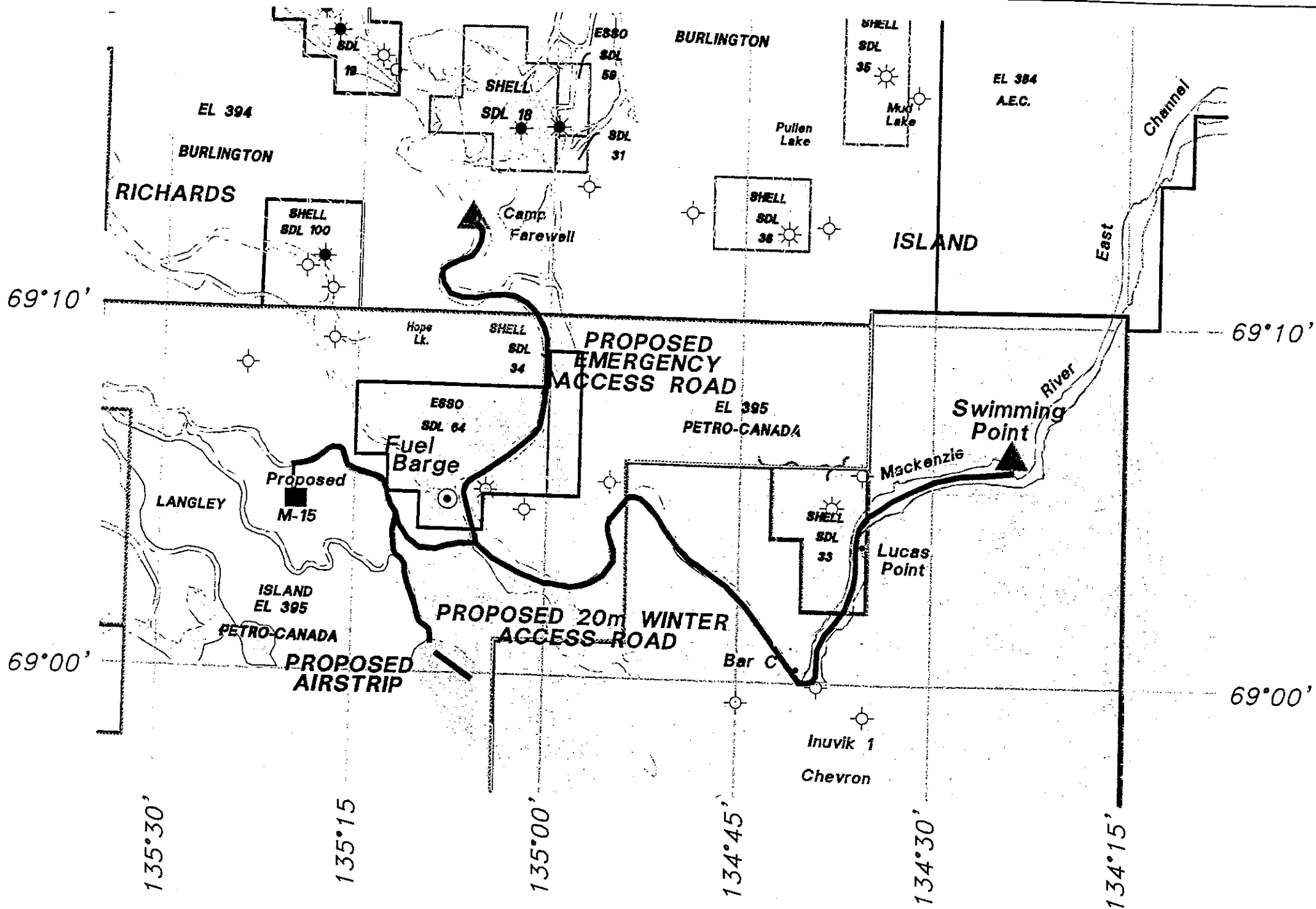
1. Tank # 3 will be filled using a 4" diesel driven pump with an approximate output of 300 gpm.
2. Tank monitoring will proceed as the tanks are filled.
3. Tank # 3 will be filled to maximum safe fill i.e. tank height and held in its hydrostatically charged state for a minimum of 24 hrs.
4. Assuming successful completion of the hydro test i.e. no leakage detected on the tank, water from tank # 3 will be transferred to fill up tank # 1 through temporary tank to tank piping.
5. Water remaining in tank 3 will be pumped into tank # 2.
6. In the event a leakage is detected on tank # 3, the tank will be emptied with the water transferred to tanks # 1& 2. The required repairs will be made and the tank re-tested. Water stored in tanks 1 and 2 will be pumped back into tank # 3 to retest the tank.
7. Following Steps 4 & 5, Steps # 2 and 3 will be repeated for tank # 1 and the tank monitored for leakage.
8. In the event a leakage is detected on tank # 1, the tank will be emptied with the water transferred to tanks # 3. The required repairs will be made and the tank re-tested. Water stored in tank 3 will be transferred back to tank # 1 to retest the tank.
9. Following successful testing of tank # 1, water will be transferred from tank # 1 to top up tank # 2 to its maximum safe height.
10. Steps 2 and 3 will be repeated for tank # 2.
11. In the event a leakage is detected on tank # 2, the tank will be emptied with the water transferred to tank # 3. The required repairs will be made and the tank re-tested. Water stored in tanks 3 will be transferred back to tank # 2 to retest the tank.
12. Following successful testing of tank # 2, water stored in tank #1 and #2 will be discharged to the river subject to satisfactory compliance with effluent quality requirements stipulated by NWT Water Board.

## Effluent Discharge Quality Monitoring.

Water samples will be drawn from tank #1 and #2 and sent for laboratory analysis prior to any discharge. During this time the tanks will be held in an undisturbed state.

Assuming the test results show the water quality is within permissible limits, discharge into the river will commence. Manipulating the tank outlet valve to ensure that the running effluent will cause minimum erosive damage at the point of discharge into the river, will control rate of flow. Discharge will be undertaken from one tank at a time.

Throughout the discharge operation, the river will be visually observed in the vicinity of the discharge. Discharge will be immediately terminated should any concerns be noticed.



AREA LOCATION PLAN  
 SCALE 1: 250 000